

Technical Procurement Specification

For

Self Contained Breathing Apparatus (SCBA)

Stowage Lockers

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1.0 Scope.

- 1.1 **Purpose.** This specification provides both general and specific item information and requirements necessary for the procurement, manufacturing, inspection and testing of shipboard approved Self Contained Breathing Apparatus (SCBA) stowage lockers. This specification modifies several of the mandatory requirements/notes as given within reference documents supporting this specification. A complete review of all documents should be accomplished in order to satisfy item procurement and manufacturing requirements as stated herein.
- 1.2 **Design.** Each Hull Type and Standard Drawing listed in paragraph 2.2 of this specification furnish the locker designs and details for various locker types and unit configurations for Self Contained Breathing Apparatus (SCBA) stowage lockers used aboard U.S. Naval vessels.

2.0 Applicable Documents.

- 2.1 **Applicable Specifications.** The document references listed below are considered first tier reference documents and form a part of this contract. First tier reference documents may identify other reference documents (not listed) required to support and clarify stated first tier document requirements. When specifications listed in the reference drawings have been canceled without replacement, a commercial item or process will be utilized if the item or process is known to exhibit similar material quality, and can readily duplicate original item or process form or function.

SPECIFICATION		REV	DATE	DISTR STMT	AMEND	NOTICE
NUMBER	TYPE					
ASTM-A276 Stainless Steel Bars & Shapes, Standard Spec	COML		10 SEPT 00	A		
ASTM-A36/A36M Carbon Structural Steel, Standard Spec	COML		10 SEPT 00	A		
ASTM-A306 - Use ASTM-A663 Spec for Carbon Steel Bars subject to mech.Property requirements	COML		07 DEC 89	A		
ASTM-B209 Aluminum & Aluminum-Alloy Sheet - Std. Spec	COML		10 MAY 00			
ASTM-D3951 Commercial Packaging, Standard Practice	COML		10 NOV 98			
ASTM-F1178 Enameling System, Baking, Metal Joiner work....	COML		1 JUNE 94			
FF-N-836 Nut: Square, Hexagon, Cap, Slotted, Castle,.....	COML		14 SEPT 94			
FF-S-92 Screw, Machine: Slotted, cross-recessed or hex...	COML	B	31 July 75		1	
FED-STD-595 (Color 11350) Color Spec	FED	B	15 DEC 89			
MIL-DTL-83488 Coating, Aluminum, High Purity	MIL	D	1 April 99			
MIL-F-18240 / QPL-18240 Fastener Element, self-locking, Threaded...	MIL	31	29 Sept 00			

A-A-50432 Hinge, Butt (Shipboard/Marine)	CID		20 April 89			
ASTM-D2967 Edge Coverage of Coating Powders, Std Test	COML		10 Oct 96			
ASTM-B308 Aluminum-Alloy 6061-T6 Standard. Spec.	COML		10 May 00			
AMS-QQ-A-200/9 Aluminum Alloy 6063, Rod, Shapes, Tube...	COML		1 July 97			
AMS-QQ-A-225/7 Aluminum Alloy 5052, Bar, Rod, & Wire;	COML		1 July 97			
ASTM-B660 Packaging/Packing of Aluminum &	COML		10 April 96			
MIL-STD-1503	MIL		13 Nov 89			
MIL-PRF-32038/17 Shipboard Furniture, Fixtures, fittings, etc.	MIL		11 Mar 99	A		
MIL-PRF-24712 Expoxy Powder Coating Spec	MIL	A	19 Mar. 97	A		
ASTM A366/A366M Standard Specification for Commercial Steel (CS) Sheet, Carbon, (0.15 Maximum Percent) Cold- Rolled E1-1998	COML		3/10/97	A		

2.2 Navy Type and Standard Drawings.

<u>Drawing Number</u>	<u>Revision</u>	<u>Title</u>
664-7246000	C	SCBA Locker Capacities and Sizes
664-7246001	C	MDL-8 SCBA Locker with Foundation
664-7246002	D	MDL-9 SCBA Locker with Foundation
664-7246003	C	MDL-10 SCBA Locker with Foundation
664-7246004	C	MDL-8N SCBA Locker with Foundation
664-7246005	D	MDL-9N SCBA Locker with Foundation
664-7246006	D	MDL-10N SCBA Locker with Foundation
664-7246007	B	MDL-5 SCBA Locker with Foundation
664-7246008	C	MDL-4 SCBA Locker with Foundation
664-7246009	B	MDL-7 SCBA Locker with Foundation
664-7246010	E	MDL-E3 SCBA Locker with Foundation

664-7246011	C	MDL-E1 SCBA Locker with Foundation
664-7246012	B	MDL-2 SCBA Locker with Foundation
664-7246013	-	MDL-11 SCBA Stowage Bag (for one SCBA)
664-7246014	A	MDL-12 SCBA Stowage Bag (for one SCBA & one spare cylinder)
664-7246015	A	SCBA Stowage Bag Cover
664-7535343	-	MDL-7A SCBA Locker with Foundation

2.3 Document Ordering Information. The Contractor must obtain all applicable document references and in addition to other document references that are not listed.

2.4 Order Of Precedence.

2.4.1 Where the requirements of the contract differ from those of the applicable documents or drawings cited herein, the contract description and notes shall prevail.

2.4.2 Where the requirements of the applicable drawing or this technical specification differ from those of referenced specifications, the drawing and technical specification shall prevail.

3.0 Requirements.

3.1 Design and Manufacturing. Locker units including each locker unit subassembly and/or component shall:

- Conform to the design requirements of each Navy Type and Standard Locker and Reference Drawing and the stated requirements of this technical procurement specification.
- Conform to material and manufacturing requirements of the individual product or process specification listed in this technical procurement specification.
- Be free from slivers, burrs, sharp edges and so forth which may result in injury to personnel engaged in the handling and/or erection of each locker unit including locker subassemblies and/or components.

3.2 Fasteners.

3.2.1 Hardware. All exposed hardware shall be in accordance with the material requirements stated in the Navy Hull Type Locker and Reference Drawings and this technical procurement specification.

3.2.2 Hardware Quantities. The contractor/manufacturer is responsible for providing all hardware items needed to successfully attach each locker unit to the sub-base, regardless of the fastener quantities listed as individual contract line item descriptions or as referenced in the Navy Hull Type or Standard Drawings.

3.3 Sub-Base. Each sub-base furnished shall be sized to the dimension identified as per the individual Contract Line Item Number and fabricated in accordance with the below requirements.

3.3.1 Welds. Each sub-base shall be 100 per cent welded on either the interior or exterior surface.

3.3.2 Finish. All exterior surfaces shall be finished level and smooth, void of high or low weld material.

3.3.3 Steel.

3.3.3.1 Material. Sub-bases shall be formed from either 11 Gauge steel sheet conforming to ASTM-A366/366M or 1/8 inch thick steel angle conforming to ASTM-A36.

3.3.3.2 Design. Each steel sub-base furnished shall be designed and assembled in accordance with the applicable detailed drawings. Sub-bases formed from steel sheet shall have a 1/8-inch inside bend radius. Sub-bases shall be coated with a wet sprayed primer. The preferred primer color is green. At installation, the items will be welded to the deck or bulkhead and then painted to match surrounding area.

3.4 Locker Modifications.

3.4.1 Figures 1 through 17. Lockers shall be furnished in accordance with the applicable Hull Type Drawings as shown in Figures 1 through 17.

3.4.2 Door Design.

3.4.2.1 Hinge. Each locker door, regardless of locker style, type or function, shall be furnished with full-length SST TYPE 304 CRES hinge with CRES pin in lieu of all other hinge types or styles. Refer to applicable drawings.

3.4.2.2 Hinge Installation. Each continuous hinge shall be furnished and installed in accordance with applicable drawings.

3.4.3 Locker / Sub-base Attachment. Locker bottoms shall be designed in accordance with applicable drawings. Referenced drawings furnishes installation details between the locker bottom and sub-base interface.

3.5 Painting.

3.5.1 Locker Unit. Locker units shall be electrostatic powder coated in accordance with Military Specification MIL-PRF-24712A. Lockers will be coated using a commercial grade polyester powder suitable for indoor use with no exposure to sunlight, but with exposure to moisture, salt, and heavy traffic. Powder color shall be high gloss red, FED-STD-595B color number 11350. For lockers installed in light traps, the color shall be a flat black, FED-STD-595B color number 37038. All exterior and interior surfaces of lockers shall be coated. Door Hinges, door handles, walk away brackets and rubber door bumpers shall not be coated. Removable bottom panel, if present, need not be coated, but may be coated if desired. For mass stowage lockers (Models: 8, 9, 10, 8N, 9N, 10N), the interior of the compartment assembly (egg crate) need not be coated. The spring clips and footplates shall not be coated, but may be installed and masked before powder coating if desired.

3.5.2 Sub-base. Sub-base assemblies shall be primed with wet spray primer, colored green. No finish coats are required on the sub base assemblies.

3.6 Alternate Material. Where steel sheet under 3/16-inch thickness is specified, steel sheet material in accordance with ASTM-A366 may be used.

3.7 Prohibited Coating. Cadmium plating of materials used in the fabrication of lockers or locker components is prohibited. Wherever cadmium coatings are specified in each Type and Standard Drawing, zinc plated material shall be furnished.

4.0 Inspection System, Engineering Change Proposal, Deviation, and Waiver Requirements.

4.1 Government Inspection. The Government reserves the right to perform any inspection or test, including in-process inspection.

4.1.1 Inspection Site. For government inspection, site of inspection shall be at the facility identified as the source of locker unit manufacturing.

5.0 Delivery.

5.1 Preservation, Packaging, Packing and Marking Requirements. Preservation, packaging, packing and marking shall be in accordance with ASTM D3951-90, "Standard Practice for Commercial Packaging" and as additionally noted herein.

5.2 Carton/Container Packaging. Each shipment larger than 50 pounds or 4 cubic feet shall be palletized for handling with a forklift.

5.2.1 Carton/Container Packing. The carton/container contents shall be blocked, braced and/or cushioned on top, bottom, and on all sides to afford adequate protection against deterioration and physical damage resulting from product shifting during transit, storage, and handling. Separators shall be inserted between painted components in order to prevent damage to those items. The use of asbestos, loose fill polystyrene, excelsior (fine wood shavings), newspaper or shredded paper of all types (including waxed paper, computer paper and similar hygroscopic or non-neutral material) is prohibited.

5.3 Packing List. With each shipment, the contractor shall provide a packing list for each unit pack, intermediate container and exterior container or unit load identifying the content of the shipment. Material Inspection and Receiving Report (DD Form 250) may be substituted for the packing list if the form contains the required data for each specific shipment. The packing list shall also identify any part(s) or component(s) that was due but was not included in the shipment.

5.4 Marking Requirements.

5.4.1 Container Markings. Each unit pack, intermediate container, and exterior container or unit load shall display the following information:: Locker Model Type followed by the internal configuration of SCBA brackets within each locker (i.e. Model E3, 6 SCBA/6 Spare).